

FIG. 1

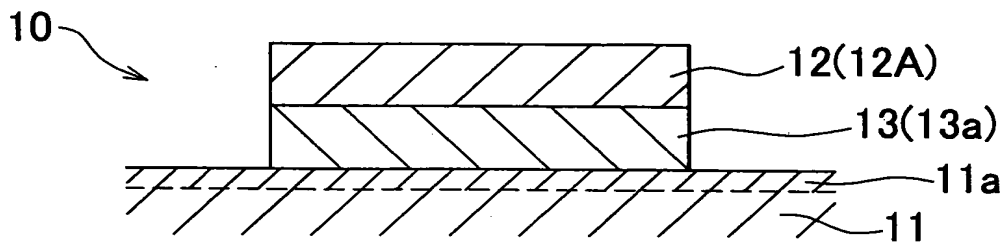


FIG. 2

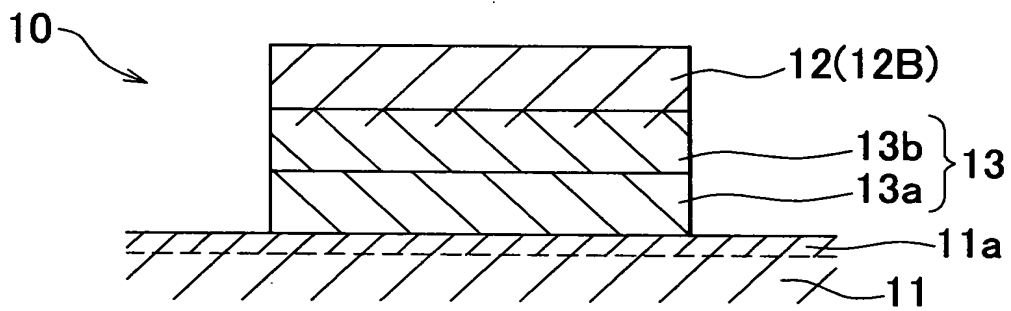


FIG. 3

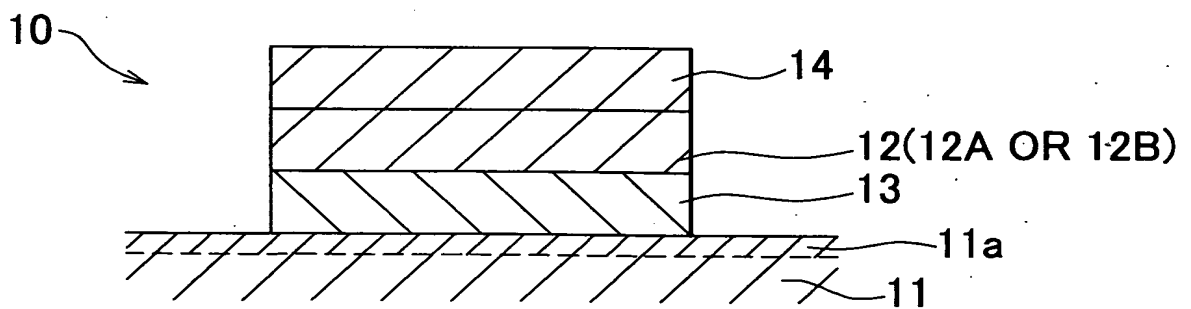
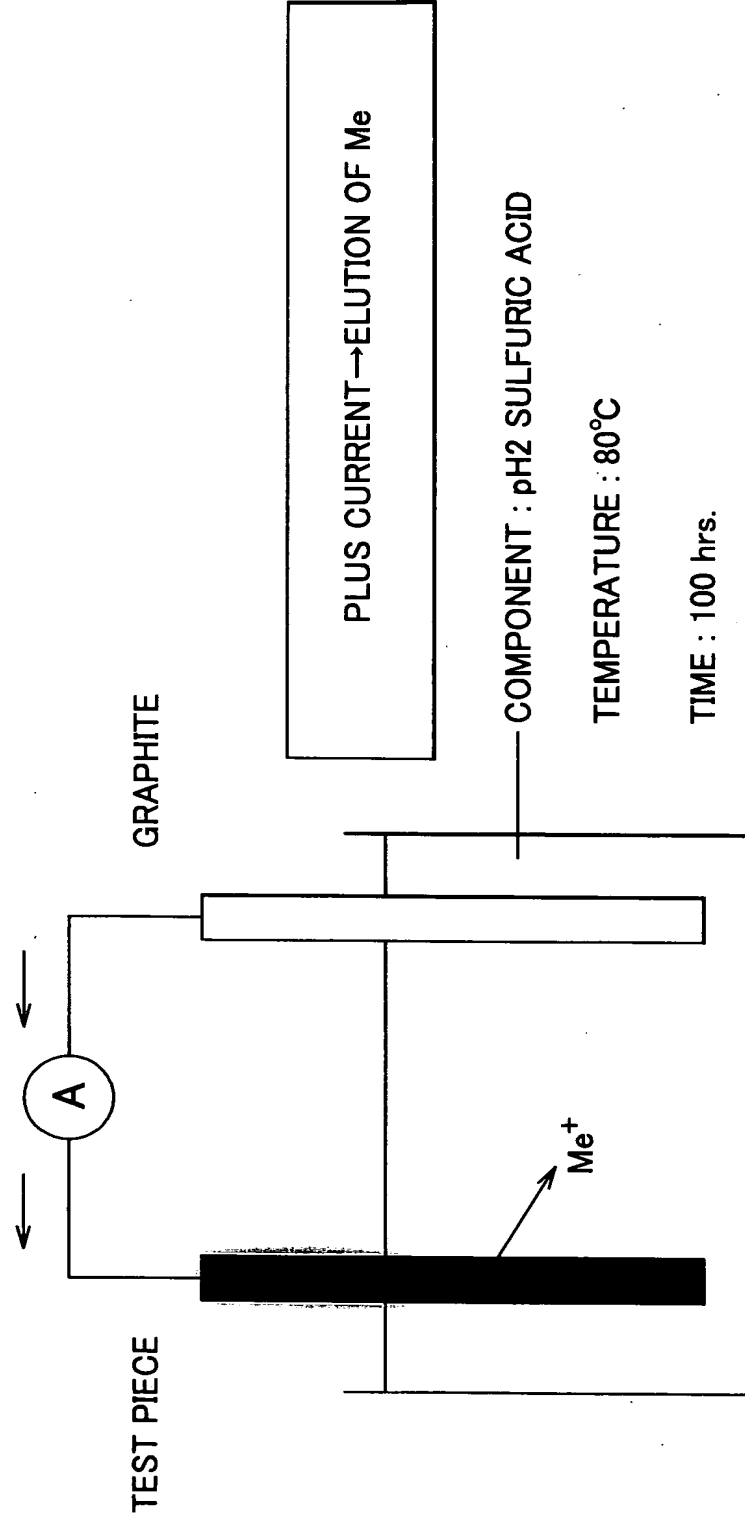


FIG. 4



COUPLE CURRENT TEST METHOD

FIG. 5

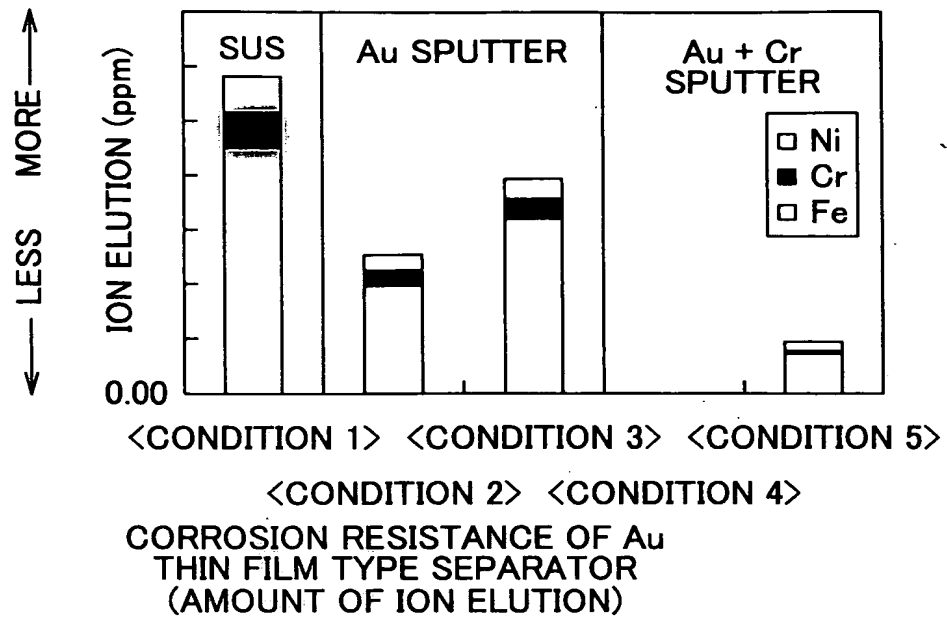


FIG. 6

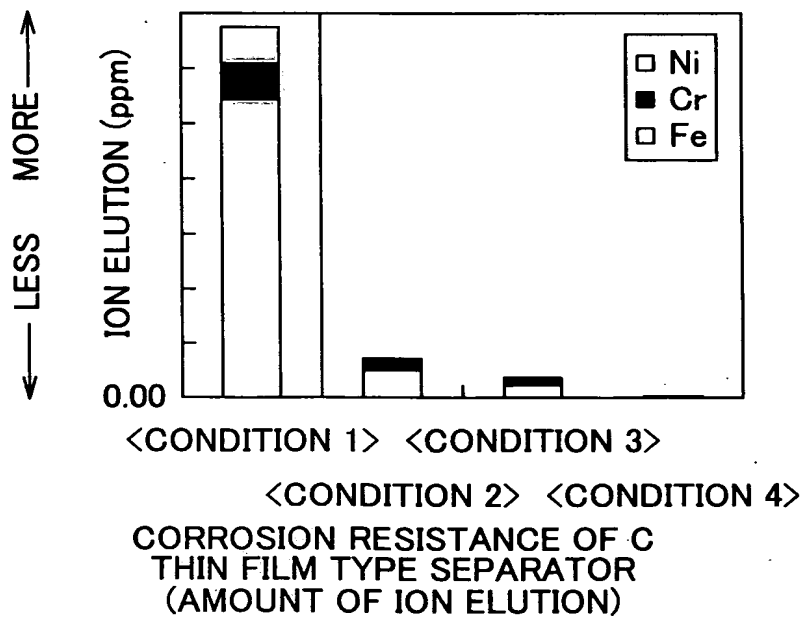
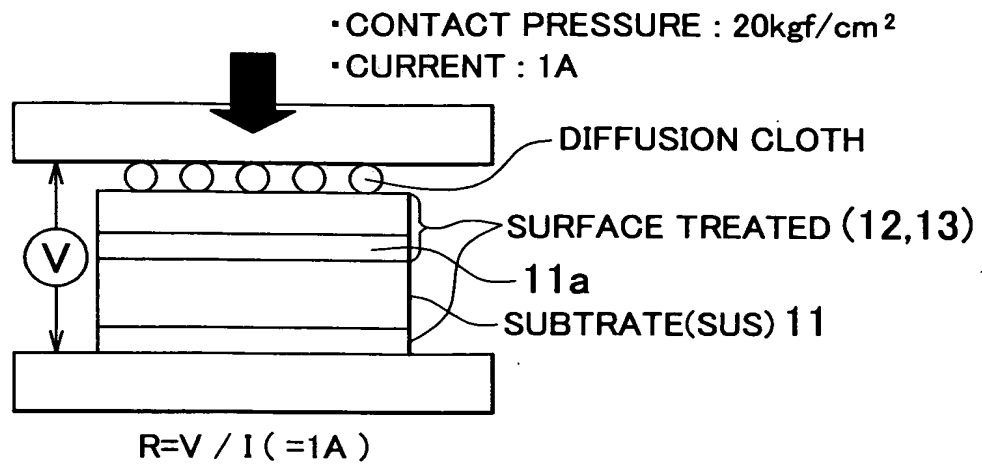
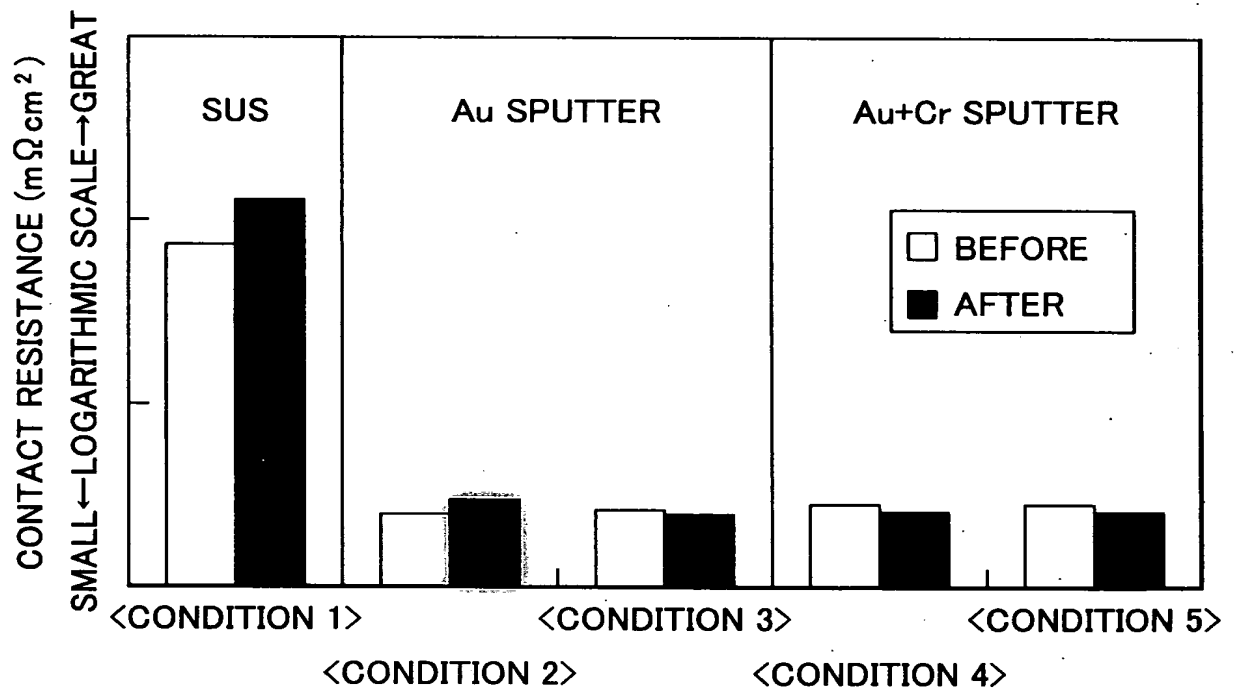


FIG. 7



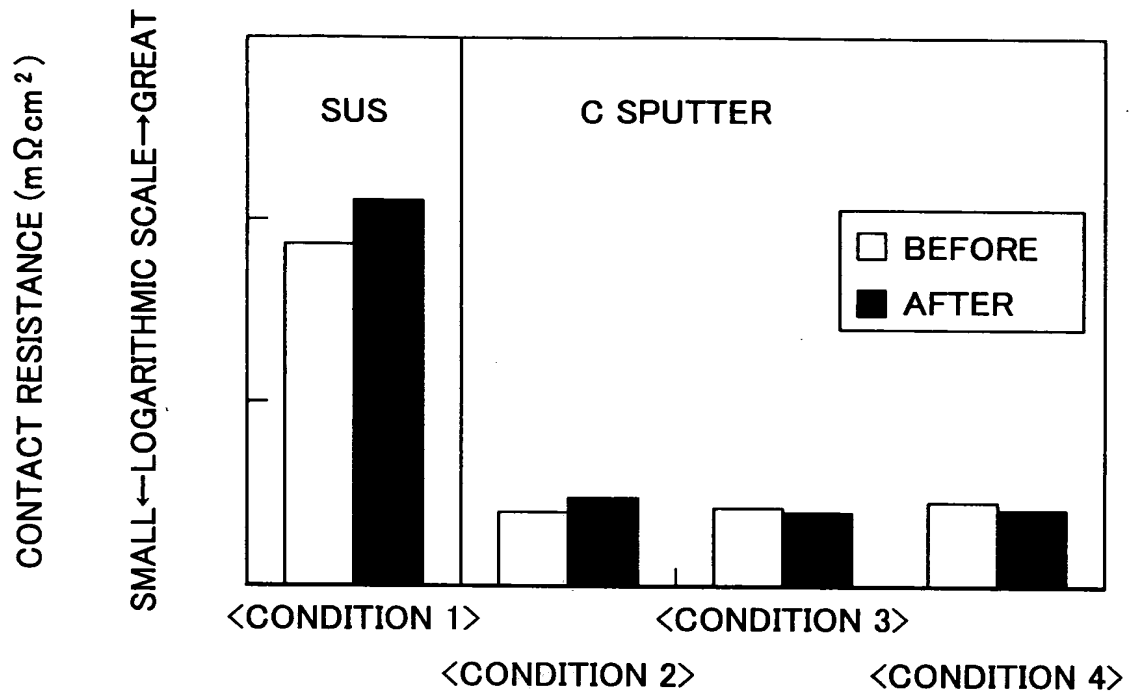
CONTACT RESISTANCE TEST METHOD

FIG. 8



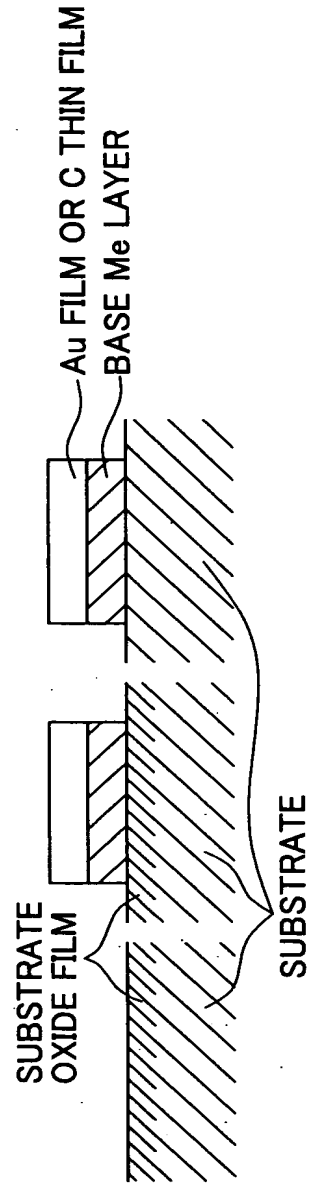
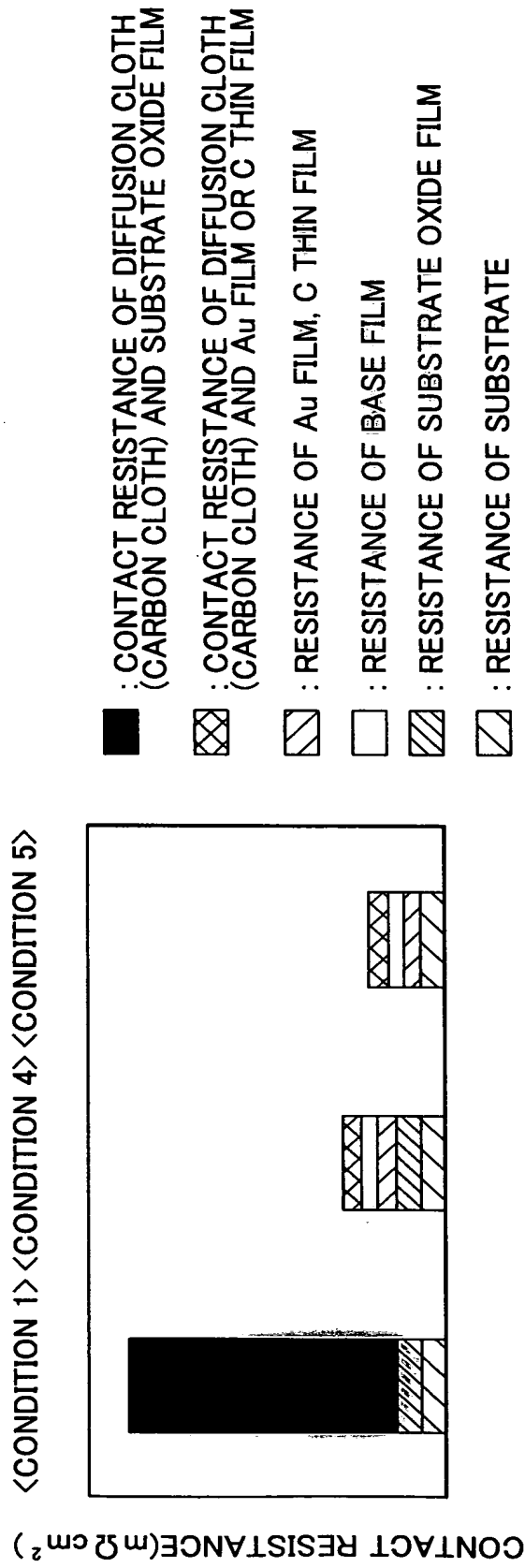
CONTACT RESISTANCE OF Au THIN FILM TYPE SEPARATOR BEFORE AND AFTER CORROSION TEST

FIG. 9



CONTACT RESISTANCE OF C THIN FILM TYPE
SEPARATOR BEFORE AND AFTER CORROSION TEST

FIG. 10



CONSTRUCTION OF SURFACE TREATMENT AND
CONTACT RESISTANCE COMPONENTS (CONCEPTUAL)

FIG. 11

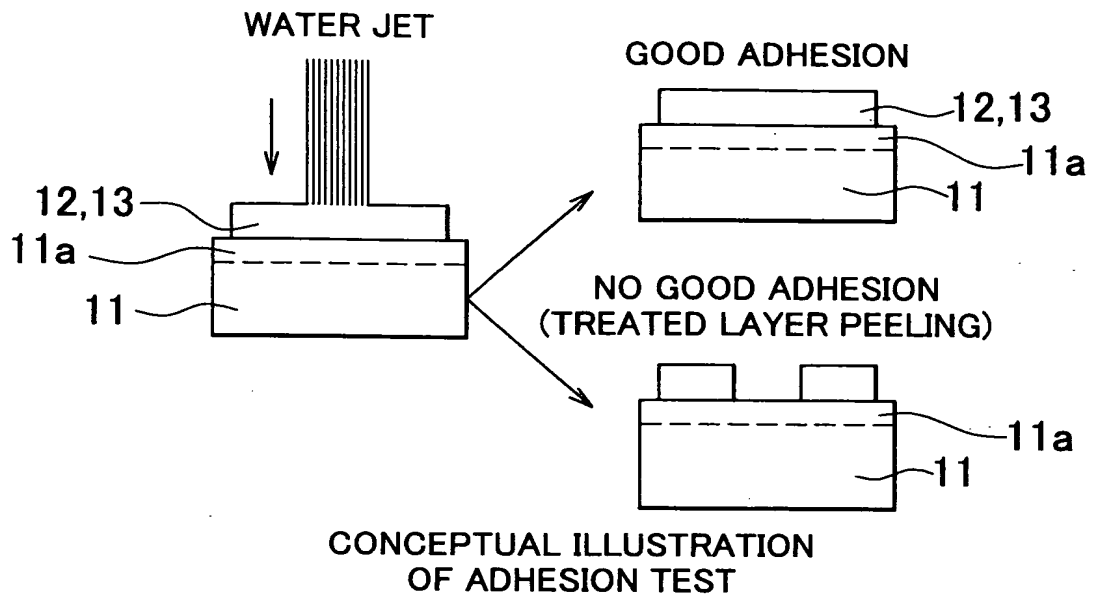
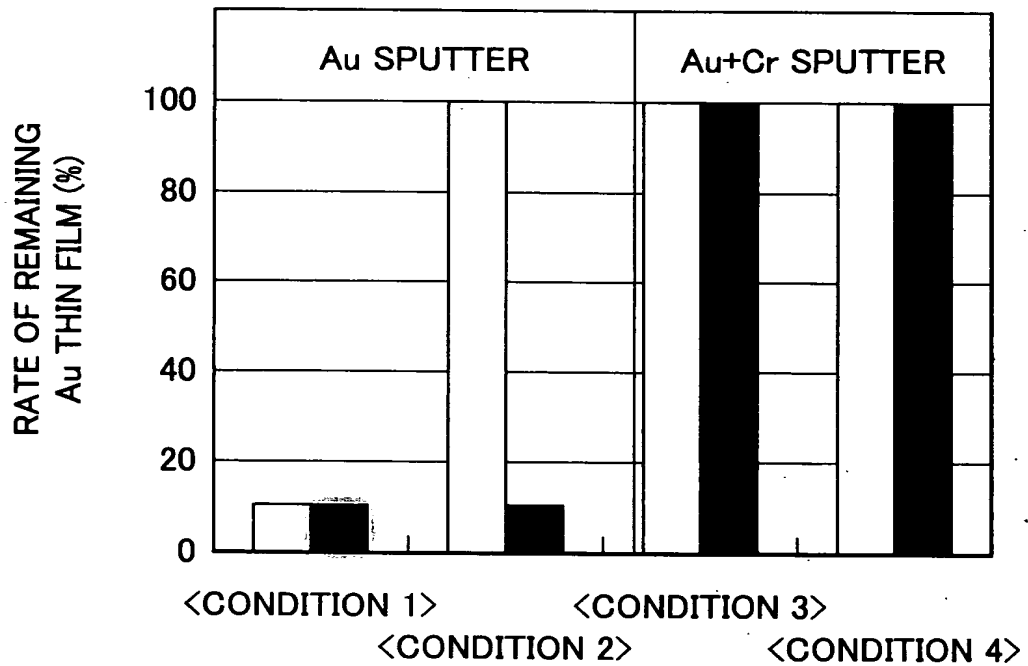
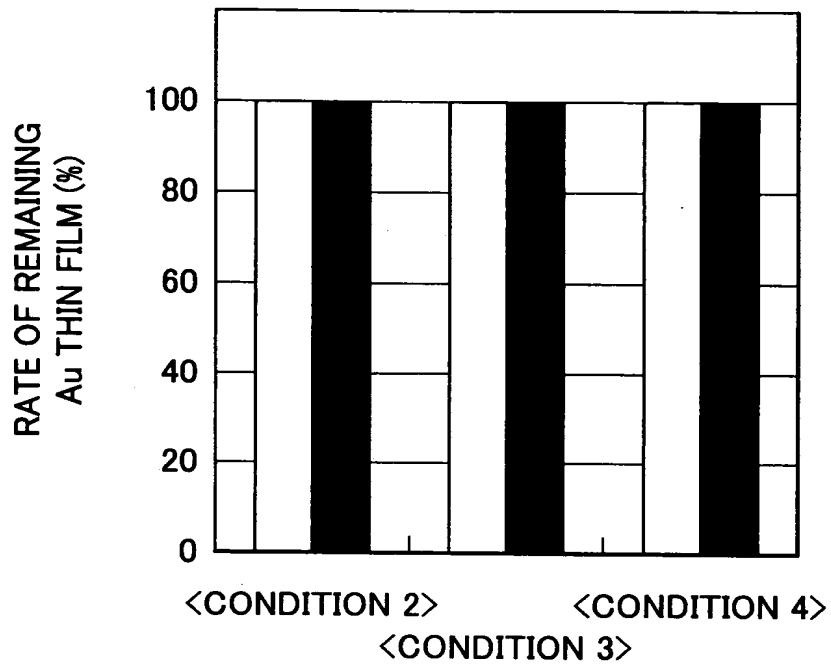


FIG. 12



ADHESION OF Au THIN FILM TYPE SEPARATOR

FIG. 13



ADHESION OF Au THIN FILM TYPE SEPARATOR

FIG. 14A

FIG. 14C

FIG. 14B

FIG. 14D

VARIATION I

C B A	VARIATION I			VARIATION II			VARIATION III			VARIATION IV		
	CARBON LAYER			C			C			C		
	CARBON-Me OR MeC GRADIENT LAYER			B			A			B		
	Me OR MeC LAYER											
	METAL SEPARATOR			METAL SEPARATOR			METAL SEPARATOR			METAL SEPARATOR		

FIG. 14E

FIG. 14G

FIG. 14F

FIG. 14H

VARIATION V

G F E D	CARBON LAYER	VARIATION VI			VARIATION VII			VARIATION VIII		
	CARBON-Me(A) OR Me(A)C GRADIENT LAYER	G			G			F		
	Me(A) OR Me(A)C-Me(B) OR Me(B)C GRADIENT LAYER	F			E			E		
	Me(B) OR Me(B)C LAYER	E			D			E		

METAL SEPARATOR

METAL SEPARATOR

METAL SEPARATOR

METAL SEPARATOR

FIG. 14I

FIG. 14K

FIG. 14J

FIG. 14L

VARIATION IX

J I H	CARBON LAYER+Me OR MeC LAYER CARBON+Me OR MeC-Me OR MeC GRADIENT LAYER Me OR MeC LAYER	VARIATION X		VARIATION X I		VARIATION X II		METAL SEPARATOR	METAL SEPARATOR	METAL SEPARATOR
		J		J		J				
		I		H		I				